UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER
KISS, ERIC B

ART UNIT	PAPER NUMBER
2192	

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Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

Office Action Summary	Application No.		Applicant(s)	
	09/937,315		HADAS, ILAN	
	Examiner		Art Unit	
	Eric B. Kiss		2122	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>05 February 2002</u>.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
     closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-30</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-30</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>05 February 2002</u> is/are: a)☐ accepted or b)☒ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☒ Copies of the certified copies of the priority documents have been received in this National Stage
     application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date <u>20020205</u>.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

1.   Claims 1-30 have been examined.

Specification

2.   The abstract of the disclosure is objected to because it exceeds 150 words. Correction is

required. See MPEP § 608.01(b).

3.   The use of the trademarks WINDOWS, OS/2, LINUX, MACINTOSH, JAVA, and

WINDOWS NT has been noted in this application. Trademarks should be capitalized wherever

they appear (capitalize each letter OR accompany the mark with an appropriate designation

symbol, *e.g.*, ™ or ®) and be accompanied by the generic terminology (always use trademarks as

adjectives modifying a generic noun, *e.g.*, the WINDOWS NT operating system; trademarks

should never be used as nouns).

        Although the use of trademarks is permissible in patent applications, the proprietary

nature of the marks should be respected and every effort made to prevent their use in any manner

which might adversely affect their validity as trademarks.

Drawings

4.   The drawings are objected to because Figure 1 contains letters that cross lines, interfering

with comprehension of the drawing. See 37 CFR 1.84(p)(3). Corrected drawing sheets in

compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid

abandonment of the application. Any amended replacement drawing sheet should include all of

the figures appearing on the immediate prior version of the sheet, even if only one figure is being

amended. The figure or figure number of an amended drawing should not be labeled as

"amended." If a drawing figure is to be canceled, the appropriate figure must be removed from

the replacement sheet, and where necessary, the remaining figures must be renumbered and

appropriate changes made to the brief description of the several views of the drawings for

consistency. Additional replacement sheets may be necessary to show the renumbering of the

remaining figures. Each drawing sheet submitted after the filing date of an application must be

labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR

1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and

informed of any required corrective action in the next Office action. The objection to the

drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

5.   The following is a quotation of the first paragraph of 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making
> and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it
> pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode
> contemplated by the inventor of carrying out his invention.

6.   Claims 1-30 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while

being enabling for construction, does not reasonably provide enablement for automatic automation. The

specification does not enable any person skilled in the art to which it pertains, or with which it is most

nearly connected, to make and use the invention commensurate in scope with these claims. The term

automatic construction as used in the claims doesn't seem likely as user intervention is required in the

modeling and creating interface between data structures (GUI) and enterprise data source.

The rejection of the base claims is necessarily incorporated into their dependent claims.

Claim Rejections - 35 USC § 102

7.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8.   Claims 1-15 and 19-28 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S.

Patent No. 5,870,749 to Adusumilli.

Claim 1.

        Adusumilli, anticipates, construction of an application for an enterprise resource comprising;

(abstract)

        (a) a meta-data description of the enterprise resource, said meta-data

description featuring a plurality of logical units of data; *(col.3 line 20-43)*

        (b) a meta-data parser for parsing the enterprise resource into said plurality of logical units of data

according to said meta-data description and for determining a relationship between said logical units of

data;(col.7 line 60-65)

        (c) a meta-data translator for translating each logical unit of data into an application component,

for associating said application component with at least one interface component for interfacing with the

enterprise resource; and *(col.22 line 10-20)*

        (d) a definition extraction factory for creating the application from a plurality of said application

components with said at least one interface component, at least according to said relationship between

said plurality of logical units of data.*(col.21 5-15)*

Claim 2.

The system of claim 1, wherein said at least one interface
component is a plurality of interface components, including at least one interface component for data flow
to and from the enterprise resource and at least one interface component for providing a user interface to
the user.*(abstract)*

Claim 3.

The system of claim 2, wherein the application further comprises:

(i) a first layer of interface components for providing control of the
application, including at least one interface component for controlling said user interface and at least one
interface component for controlling said data flow; *(col.2 line 60-65)*

(ii) a second layer of interface components for providing said data input and said data output,
including said at least one interface component for providing said user interface; and (col.4 line 35-40)

(iii) a third layer for specifically interacting with the enterprise
resource.

Claim 4.

The system of claim 3, wherein said application component is
contained in said third layer and said third layer further comprises:

(1) an export interface for retrieving data from the enterprise resource;

and *(col. 4 line 10-30, abstract)*

(2) an import interface for storing data into the enterprise resource. *(col. 4 line 10-30,abstract)*

Claim 5.

The system of claim 4, wherein each of said first layer and said second layer includes an
extension of said application component for communicating with said at least one interface component
related to said user interface and said at least one interface component related to said data flow. (abstract)

Claim 6.

The system of claim 5, wherein said at least one interface component is defined according to a
standard interface and according to at least one user-defined function.(figure 1,16)

Claim 7.

The system of claim 1, wherein said meta-data description, said meta-data parser and said meta-data translator are specific for a particular type of enterprise resource. *(col.6 line 1-15)*

Claim 8.

The system of claim 7, wherein said meta-data translator translates each logical unit of data according to at least one internal translation rule. . *(col.6 line 1-45)*

Claim 9.

The system of claim 8, wherein said at least one internal translation rule is defined according to an attribute of said particular type of enterprise resource. *(col.6 line 1-45)*

Claim 10.

The system of claim 9, wherein said at least one internal translation rule further includes at least one default value for a parameter not described in said meta-data description. *(col.4 line 25-35)*

Claim 11.

The system of claim 10, wherein said meta-data translator also translates each logical unit of data according to at least one external translation rule defined by the user.*(col.3 line 15-23)*

Claim 12.

The system of claim 1, further comprising:

(e) an application component factory for transforming each application component into an object having said at least one method and being associated with the data of said associated logical data unit *(col.7 line15-50)*

(f) a hierarchical structure constructor for arranging said plurality of application components into a hierarchical object-oriented structure according to said relationship between said logical units of data, such that said definition extraction factory also creates the application according to said hierarchical object-oriented structure. *(col.7 line15-50)*

Claim 13.

The system of claim 12, further comprising:

(g) a definitions file for defining each of said plurality of application components, such that the application is stored as said definitions file, said definitions file being constructed by said definition extraction factory.(fig 4,5,6)

Claim 14.

The system of claim 13, further comprising:

(h) an editing environment for editing said hierarchical object oriented structure by the user, such that the user manually alters at least a portion of said hierarchical object oriented structure *(col. 2 line 60-65,fig 6)*

Claim 15.

The system of claim 14, further comprising:

(i) a parsing engine for reading said definitions file and for operating the application according to said definitions file. *(col.7 line 60-65)*

Claim 19.

Adusumilli, anticipates constructing an application for an enterprise data resource comprising the steps of:

(a) providing a meta-data description of the enterprise resource, said meta-data description including at least one attribute of the enterprise resource; *(col.3 line 20-43)*

(b) dividing the enterprise resource into a plurality of logical data units according to said meta-data description; (col.7 line 60-65)

(c) translating each of said plurality of logical data units into an application component according to at least one attribute of said meta-data description to form a plurality of application components; *(col.22 line 10-20)*

(d) determining a relationship between said plurality of logical data units; and (col.2 line 45-55)

(e) constructing the application according to said plurality of application components and said relationship between said plurality of logical data units. (col.2 line 45-65)

Claim 20.

The method of claim 19, wherein said at least one attribute of said meta-data description includes a structure of the data in the enterprise resource, such that step (d) is performed according to said structure of the data in the enterprise resource (col.2 line 45-55).

Claim 21.

The method of claim 20, wherein step (c) further comprises the step of:
(i) defining at least one method for each application component, for operating on the data of each logical data unit associated with each application component, such that each application component is an object having said at least one method and being associated with the data of said associated logical data unit *(col.22 line 10-29)*.

Claim 22.

The method of claim 20, wherein step (d) further comprises the step of

(i) constructing a hierarchical object-oriented structure for said

plurality of application components according to said relationship between said plurality of logical data units. (col. 2 line 60-65,fig 6) and (col.7 line10-20)

Claim 23.

The method of claim 21, wherein step (d) further comprises the steps of

(ii) providing an editing environment for displaying said hierarchical object-oriented structure to the user; and (fig 1)

iii) altering at least a portion of said hierarchical object-oriented structure by the user.(fig1) and (col.7 line10-20)

Claim 24.

The method of claim 22, wherein step (c) is performed according to at least one internal translation rule, said at least one internal translation rule being defined according to a type of the enterprise resource. *(col.6 line 1-45)*

Claim 25.

The method of claim 23, wherein step (c) is additionally performed according to the steps of:

(i) defining at least one external translation rule by the user; and *(col.6 line 1-45)*

(ii) translating each of said plurality of logical data units into an application component according to said at least one external *(col.6 line 1-45)*

translation rule.

Claim 26.

The method of claim 24, further comprising the steps of:

(f) extracting a plurality of definitions for describing each of said

plurality of application components and said relationship; and (col 6.line 55-65)

(g) storing the application by storing said plurality of definitions. (col 7.line 10-15)

Claim 27.

The method of claim 25, further comprising the step of:

(h) operating the application according to said plurality of definitions. (col 6.line 55-65)

Claim 28.

The method of claim 26, further comprising the step of:

(i) altering the application by changing at least one of said plurality of definitions.(et seq)

Claim Rejections - 35 USC § 103

8.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

9.   Claims 16-18, 29, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S.

Patent No. 5,870,749 to Adusumilli in view of U.S. Patent No. 6, 061,721 to Ishmael et al.

Claims 16-18, 29, and 30.

     Adusumilli discloses all the limitations cited per claims. Adusumilli doesn't explicity disclose having a GUI. However, Ishmael discloses using A GUI (builder) with in an enterprise based application (col. 9 line 15-43). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Adusumilli in combination with the GUI builder disclosed by Ishmael, because GUI's increase ease of use in Application construction and Object Oriented Technology.

Conclusion

10.   Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Eric B. Kiss whose telephone number is (571) 272-3699. The Examiner can normally be reached on Tue. - Fri., 7:00 am - 4:30 pm. The Examiner can also be reached on alternate Mondays.

    If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Tuan Dam, can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

    Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

    Any inquiry of a general nature should be directed to the TC 2100 Group receptionist: 571-272-2100.

EBK /*EBK*

March 14, 2005

TUAN DAM
SUPERVISORY PATENT EXAMINER